

2017-2018 Course Selection Guide

Bay High School

The faculty and administration are happy to present this course planning guide to students and their parents. It provides a complete overview of courses offered at Bay High School and will be extremely helpful in planning students' educational experiences. Selecting a sound academic program is becoming increasingly complicated, but our comprehensive curriculum is designed to address students' current needs as well as prepare them for higher education or the world of work. We cannot stress strongly enough the need for thoughtful and intelligent planning between students, parents and counselors. This ensures a sound program that will meet both individual needs and graduation requirements.

This guide will help students plan and choose courses to move them successfully from their freshman to their senior year at Bay High. We have a number of requirements for graduation that must be kept in mind throughout the planning process, and we have a wide variety of electives from which to choose that complement students' interests. College admissions and today's jobs should serve as a guide for course selection. If students have questions, they should see their counselor to obtain accurate and up-to-date information. Counselors, teachers, and administrators stand ready to assist students when questions arise.

Above all, students should plan a program that challenges them appropriately, reflects realistic goals, and enables them to take advantage of the diversified offerings that are available. Students should plan their course selections with alternatives in mind since this flexibility ensures they receive a sound education that prepares them for today's constantly changing environment.

High School Administration

2017-2018

Mr. Jason T. Martin
Principal

Mr. Aaron Ereditario
Assistant Principal

Mr. Matt Spellman
Activities/Athletic Director

Guidance

Mrs. Ana Frock
Counselor (A-G)

Mrs. Kerry Walukas
Counselor (H-O)

Mr. R. Kenneth Schroeder
Director of Guidance
(P-Z)

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Director of Curriculum

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Asst. Supt. of Special Services

Mrs. Karen Derby-Lovell
Director of Communication

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MINIMUM GRADUATION REQUIREMENTS

The following requirements incorporate the changes mandated by law and decisions of the Bay Village Board of Education.

Students are required to earn 28 credits for graduation. Those credits must be distributed as follows:

English	4.5
(including Communications 9)	
Social Studies	4.0
Science	3.0
Includes:	
1 credit of Biological Science	
1 credit of Physical Science	
1 credit of Advanced Science study	
Math	4.0
Fine Arts	1.0
Health	.5
Physical Education	.5
Electives	10.5

COLLEGE ADMISSION REQUIREMENTS

College admissions committees act differently each year according to the quantity and quality of applicants and other special circumstances of the time. Keep up to date by reviewing all information sent/given to you, attending college night and financial aid night and staying in constant communications with your counselor. Our requirements are sometimes less than what colleges are looking for.

8TH GRADE COURSES

High school credit will be granted in classes where a high school certified teacher teaches a high school level course at the middle school. Presently, these classes include Spanish I, French I and IAG1. Students from Bay Middle School will be expected to move on to the next level course at the high school. Students may audit the courses if grades are D+'s or below. An F in middle school will remain on the transcript and the course could be repeated.

West Shore Career and Technical School

Bay students can participate in a variety of programs and courses that we cosponsor at other schools, such as Lakewood High School. Descriptions of these courses are available online or in the BHS Guidance Office. See your counselor, if any of these subjects are of interest to you or for greater details. These are a junior and senior year phenomenon.

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Advanced Placement Courses

Bay High School offers fifteen courses taught at the college level called Advanced Placement courses. Successful scores on the AP Exam usually result in college credit in that area. If this option might be for you, plan to attend AP Information Night, February 2, 2017 at 7:00 p.m. These are our most rigorous courses and mirror college standards. Students taking these classes are responsible for the cost of the AP exams. These costs are approximately \$95.00 per test. AP courses offer an adjusted GPA scale for students who complete the AP curriculum work with at a C+ or higher and complete the AP exam.

AP Seminar

Students enrolled in AP courses in Math and English will take these courses during the first semester. A second semester AP Seminar class will be required for each of these classes. The seminar will be scheduled during the lunch periods for approximately one period regardless of the number of first semester AP courses scheduled. This seminar course is weighted and results in the AP experience in these specific courses worth 1.5 credits.

Dropping of a Class

Classes are only dropped under extraordinary circumstances. Exceptions are possible, though are rare. Dropping of a class without cause results in a withdrawal failing for the class.

Pass/Fail

Electives can be taken on a pass/fail basis by juniors and seniors. The decision must be made mutually by the student, parents, counselor, teacher and principal by the end of the eighth week of the semester. See your counselor for the required form. **Do not miss this deadline.**

Audit

While auditing a course (receiving no grade and no credit) is not recommended or encouraged, it sometimes, though, is permitted. This decision must be made before the end of the school year. See your counselor now if you want to discuss this option. When an audit takes place, a student must improve their previous course grade greater than two letter grades in order to have any grade impact.

College Credit Plus (CC+)

College Credit Plus, replaces PSEO, as signed into law under House Bill 487. Under the College Credit Plus guidelines, high school must form at least one partnership with an Institute of Higher Education (IHE) and develop two pathway opportunities. These pathways must show how students can earn 15 transcribed credits or 30 transcribed credits.

Students wishing to pursue this option should speak with their assigned counselor and attend our College Credit Plus night, which will be February 9, 2017 at 7 p.m.

Families should be aware that failing a College Credit Plus class will result in the family being responsible for the cost of the class. In addition, students dropping the class after the college approved date will be responsible for all costs associated with the class. Students who drop a CC+ course will be expected to immediately enroll in a Bay High School course or an approved on-line course in order to maintain a full course load.

**see page 42-44 for examples of tracks with the potential partner school

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Courses Failed

Most courses failed must be repeated, particularly required courses. However, courses failed in one semester might not be offered the next semester. In fact, some courses are only offered in alternating years. Failure of courses is very disruptive to a student's academic planning. Your best course of action is, of course, to pass each course.

Student Course Load

Students will be required to take courses to fill each of the 4 blocks. For most students this will be four courses each semester. Freshmen in the Health/Communications 9 block will take 5 courses in that semester. Students in split period music courses will also take additional courses. Study halls will not be an option in most cases. Unless you are in a co-op program, there will be no early release for employment purposes.

Plan for NO Changes

Immediate planning for course requests for next year is critical to our efforts to provide the courses and teachers to meet student requests. Changes to these requests damage our ability to match courses with requests. Changes are discouraged unless there are extenuating circumstances such as adjusting for failed courses, substituting for courses dropped from the schedule because of a lack of demand or accommodating injury, illness or other medical emergencies. We plan for no changes and hope you do also.

Credit Flexibility

Credit Flexibility is any alternative coursework, assessment or performance that demonstrates proficiency needed to be awarded equivalent graduation credit as approved by the school district. Approved credit awarded through this policy will be posted on the student's transcript and counted as required graduation credit in the related subject area or as an elective.

Prerequisites

Prerequisites for courses **must** be met. Prerequisites are not just guides.

Course Length Definitions

All classes are offered as FULL SEMESTER BLOCKS unless otherwise noted.

Full Semester Block - Meets every day for an entire block for a semester. (1 credit - 1 block)

Full Year Block - Meets every day for an entire block for the entire school year. (2 credits - 1 block)
(AP Chemistry and CBI are examples).

Half Semester Block - Meets every day for an entire block for a quarter. (.25 or .5 credit - 1/2 block)

Modified Year Block - Meets every day for half of a block for the entire year (1 credit)

Modified Semester Block - Meets every day for half of a block for a semester (.5 credit)

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ART

All art courses, in addition to studio experience, will provide study in art appreciation, as well as art criticism. All courses will deal with art heritage and contemporary trends. There will be occasional readings in the textbook, the writing of papers, examinations and field trips. Students will also have the opportunity to participate in art competitions on the local, regional, state and national levels. All art courses are full semester block classes and earn one credit. AP Art History will be offered in the 2018-2019 school year.

Art Survey

Credit: 1 Grades 9-12

Prerequisite: None

This course is designed for students with an interest in both art history and studio art. It is recommended that students take this course as a freshman or sophomore to ensure placement in future art courses. Studio assignments executed in a variety of materials from painting and drawing to textiles and ceramics will be based on trends/styles through art history. Students will build their knowledge of the principles and elements of design as well as work in aesthetics, criticism, studio and history. There will be writing and reading assignments and two major papers. Knowledge of the elements and principles of design will be evaluated through tests, quizzes and applications in studio assignment.

Drawing and Design

Credit: 1 Grades 9-12

Prerequisite: None

This course is designed for students with an interest in studio art. It is recommended that students take this course as a freshman or sophomore to ensure placement in future art courses. This class will focus heavily on understanding and application of the elements and principles of design. Exposure to historical and contemporary art in terms of the use of the principles of design will be explored. Students will work on building their drawing skills using a variety of techniques. Students will be required to keep a sketchbook and to complete numerous drawing/design assignments outside of class. Participation in full and partial class critiques and assessments will play a large part in the student evaluation process. In addition, students will be required to know vocabulary as it pertains to the principles and elements of design. This will be evaluated through tests, quizzes, study guides and reading assignments.

Applied Art

Credit: 1 Grades 10-12

Prerequisite: Completion of Art Survey or Drawing and Design with a C average or better

This course will build on knowledge from previous art courses and expand that knowledge through the applied arts. The focus of this course is to use a variety of materials to create art that is both decorative and functional. This course will offer the possibility of working in many of the following areas; jewelry, textiles, printmaking, metalworking, ceramics, glass, papermaking, bookbinding, and woodworking. Students may be required to read frequently, keep a weekly journal or write two (2) major papers. Students will be required to work aspects of an assignment outside of class.

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Computer Graphics

Credit: 1 Grades 10-12

Prerequisite: Successful completion of Drawing and Design or Art Survey, Teacher recommendation

This course will introduce students to computer graphics using Adobe software and traditional graphic materials. Students will build upon knowledge of the elements and principles of design acquired in prerequisite courses to create graphic images. This is primarily a lab course that will explore the use of various tools and techniques in the creation and manipulation of images. Topics covered may include advertising, promotional materials, page layout, illustration, product design and text/font creation. There will be several opportunities for students to have real world experiences by creating designs for school and community organizations. All students are required to keep a three ring binder to hold completed assignments, notes and handouts. Students may be required to complete preparatory drawings for work on the computer.

Photography

Credit: 1 Grades 10-12

Prerequisite: Successful completion of Drawing and Design or Art Survey, Teacher recommendation.

The focus of this course will be on black and white and color photography. Negative developing with “black bag” will be used with both 35mm and 120mm film sizes. Students are encouraged to use their own equipment (any 35mm manual camera, digital camera, and cell phone) but both 35mm and 120mm formatted cameras and digital cameras will be available for student use. Ways of “retouching”, manipulating and coloring photographs using the Adobe Photoshop program will be explored. The study of digital photography will provide the color photography aspect of this course. Heavy emphasis on using the principles and elements of design to compose successful black and white photography will be explored using “traditional” film cameras. Photographs play a large part in the evaluation of student work in this course. Writing assignments such as artist statements and criticisms can be expected. Production work in the form of books and presentation pieces are a part of the photography experience. All students are required to keep a three ring binder to hold completed assignments in the form of contact sheets, film negatives, notes, and handouts.

Painting

Credit: 1 Grades 10-12

Prerequisite: Successful completion of Drawing and Design OR Art Survey, Teacher recommendation.

Students will study composition and color theory as appropriate to painting. The course will cover the painting experience in watercolor, oil, acrylics and oil pastel, including the stretching of canvas. Continued development of accurate drawing skills is a requirement for success in this course. Emphasis will be placed on the development of each student’s personal technique and style. The course will also explore the history of painting, reviews and gallery visits. Written artist’s statements concerning theme and content of student work are required.

Sculpture

Credit: 1 Grades 10-12

Prerequisite: Successful completion of Art Survey or Drawing/Design, Teacher Recommendation.

This course is geared toward students who have an interest in three-dimensional artwork. Many mediums including, but not limited to, stone, ceramics, metal, wood, and glass as well as mixed media will be explored. Students will work within the confines of the strict safety rules that govern the activities. The instructor will not hesitate to weed out those who would pose a danger to themselves or others in the class. Students will be required to use knowledge from previous art courses in class critiques and two (2) major papers that will deal with sculpture artists. This is a physical class that is both mentally taxing and physically tiring. Students must realize the demand both in and outside the school day.

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Ceramics

Credit: 1 Grades 10-12

Prerequisite: Successful completion of Art Survey or Drawing and Design, Teacher recommendation

This course will cover the various methods of ceramic construction including the potter's wheel. Three dimensional sculptural forms will also be explored in clay. Students will work with different kinds of clay and a variety of glazing methods. This course will include historical as well as contemporary approaches to ceramics. Students will be required to participate in class critiques as a part of the education process. Written artist's statements concerning theme and content of student work are required. Visits to current exhibitions may be included.

Advanced Art

Credit: 1 Grades 11-12

OFFERED 1st SEMESTER ONLY

Prerequisite: Successful completion of Drawing and Design or Art Survey as well as offerings and portfolio review, Teacher Recommendation

Advanced Art is for juniors and seniors. Emphasis is on drawing and painting, but there are also opportunities for in-depth study in other art areas. Students who plan an art major will prepare a portfolio in this course. Because many seniors' portfolios are needed halfway through the school year, students must be able to select work from previous courses, as well as from Advanced Art. Art appreciation will be offered as appropriate to the media explored. Trips (field trips and on your own) to art galleries will also be required.

Advanced Drawing and Painting

Credit: 1 Grades 10-12

Prerequisite: Successful completion of Drawing and Design/Painting, Teacher Recommendation

This course focuses on the continuation of two dimensional designs with emphasis on honing observation skills and the techniques needed to record those observations as well as increasing the skills in concept creation. This is an upper level art course in which students will be required to maintain a sketchbook along with out of class assignments.

A cooperative group project will be part of the course.

Advanced Computer Graphics

Credit: 1 Grades 10-12

Prerequisite: Successful completion of Drawing and Design or Art Survey and Computer Graphics, Teacher recommendation.

Skills and techniques learned in Computer Graphics will be expanded upon in this course. Focus will be on typography, image creation and manipulation, design concepts, product production and production of images for specific usage, such as animation and web design. There will be several opportunities for students to have real world experiences by creating designs for school and community organizations. Students may have the opportunity to work with several Adobe applications and deal with the issue of cross-application compatibility.

All students will be required to keep a three ring binder as in Computer Graphics. They will also be building a digital portfolio for review at the end of the course.

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AP History of Art

Credit: 1 Grades 10-12

Prerequisite: B or above average in Art Survey or Drawing and Design, Teacher recommendation, AP US History or AP European History recommended. This class is offered every other year. The class will be offered in the 2018-2019 school year.

The AP Art History course is equivalent to a two-semester introductory college course that explores topics such as the nature of art, art making, and responses to art. By investigating a specific image set of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the course fosters in-depth, holistic understanding of the history of art from a global perspective. Students become active participants in the global art world, engaging with its forms and content, as they experience, research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. This course is offered as a modified, year-long block.

BUSINESS

The Business Department is planning to offer the following courses. A course may be eliminated or combined with another Business Class, depending upon the enrollment.

Accounting

Credit 1 Grade 10-12

Prerequisite: None

Accounting is the basic language for all business. This course is designed to give you a basic understanding into how individually-owned companies, as well as partnerships, engage in business transactions. Why does one company's stock price go up while another decreases? With your knowledge of Accounting, you'll be able to understand this, and therefore, **MAKE MONEY!** Don't wait until college to get these skills – get the skills now!

Business Law

Credit 1 Grade 10-12

Prerequisite: None

What is a monopoly? What is a tort? Who is the plaintiff and the defendant? What kind of, and how much car insurance coverage should I get? This class is designed to introduce you to the law from both a personal and business perspective. From ethics and morals to mock trials, this class has it all! You will learn about several different types of law including housing and consumer, and what the purpose is of each. Case studies, real life scenarios, and current events are also investigated and discussed in this class.

Finance

Credit 1 Grade 10-12

Prerequisite: None

Should I lease or buy a car? Should I buy a house or rent one first? What do all of those letters and numbers mean on the business channel? If you're not interested in learning about making money or being able to retire before you're 65, then this class is **NOT** for you! Learn about the "Starbuck's Million", the company formerly known as Enron and how they went from riches to rags in a matter of months, and how to make money in the stock market even if a stock is going down. In addition you'll be taken from birth to death, and how at each stage in your life you must plan financially. And did we mention the stock market simulation where you get to play stockbroker. This class is a must!

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Marketing

Credit 1 Grade 10-12

Prerequisite: None

Ever wonder how companies get you to buy something that you might not normally buy? What techniques are used in marketing products? What are the 4 P's? And why are people more likely to buy when a price is advertised with one line through the dollar sign instead of two? These are just a couple of topics that we will hit on during our semester long study of Marketing. From creative advertising to international marketing, and commercials to Ben & Jerry's Ice Cream, this class is designed to expose you to the basics of Marketing. At the same time, you'll also become better prepared for a business program in college and beyond.

Basic Computer Applications

Credit 1 Grade 10-12

Prerequisite: None

Basic Computer Applications is a course designed to teach students how to use the computer as a business and personal tool through the use of applications software. Appropriate software for keyboarding, presentations, word processing, graphics, and spreadsheets will be used. Students will also perform activities using integrated software programs. This class is a must for all students in today's computerized society. Learn proper keyboarding skills that can be applied to all of your classes and future careers. Don't wait until you go to college or enter into the workforce without these important skills. This class is a prerequisite for the more advanced computer courses.

Intermediate Computer Applications

Credit 1 Grade 10-12

Prerequisite: Basic Computer Applications and permission from the teacher

This laboratory experience offers the student a hands-on initiation to electronic spreadsheets, a database program, word processing, and a presentation program. Upon this foundation, intermediate database and intermediate and advanced spreadsheet skills are taught. Throughout the semester there is an emphasis on the integration of the applications as they are applied to personal and organizational tasks. Everyone uses computers and technology in their personal and business lives. This class will give you all the computer skills you will need to succeed in high school, college or any career. This course combines the three most popular computer programs: Microsoft Word, Microsoft Excel and PowerPoint. In addition you will learn other multimedia software. You will learn to combine documents and information from various applications into professional presentations commonly used in the personal and business environment. This course will prepare you for the Advanced Computer Applications class, where you can earn a Microsoft Office Specialist certificate. Get ahead of the competition. Learn these skills today.

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Advanced Computer Applications

Credit 1 Grade 11-12

Prerequisite: Basic Computer Applications, Intermediate Computer Applications and permission from the teacher

Have you ever wanted to become an entrepreneur and market your own product or idea through technology? This course is designed for students who have successfully completed Basic and Intermediate Computer Applications and wish to learn more about computer business applications using Microsoft Office and other advanced and useful software. Students will have an opportunity to gain the basic skills necessary for employment in any business-related environment. They will learn the techniques and receive training on equipment/software used in many businesses today. Students will discover how to use the computer for advanced word processing, database, spreadsheet, desktop publishing, and other applications. In addition, they will become proficient in Microsoft Office and will take a test where they can become an official Microsoft Office specialist. Students will work in many computer programs, such as Word, Excel, Access, PowerPoint, and Publisher. They will, essentially, become an entrepreneur and create their own business cards, letterheads, flyers, brochures, advertisements, commercials, web pages, spreadsheets, databases, and a variety of multimedia presentations. The skills learned in this course can be applied to any of your other classes and will put all students ahead of the competition in college and most careers.

ENGLISH

Description of Program

Students are required to take 4 1/2 units of credit. Students take 1/2 unit of Communications in the freshman year. They are also required to complete one unit of each grade-level course each year. Additional elective courses may be taken each year. These elective courses do not count toward the 4 1/2 credits.

Required Courses

Freshmen are required to take Freshman English (1 credit) plus Communications 9 (1/2 credit). Sophomores are required to take Sophomore English. Juniors take Junior English or Honors American Literary Experience (HALE). Seniors may take Senior English or AP English. Students who wish to gain a stronger background prior to AP English senior year may take Junior and Senior English (one each semester) their junior year. AP English is a senior year, first-semester course followed by the required, second-semester, modified block seminar course. Summer reading is a component of all required courses.

Students must pass previous level required courses before they take the next level. For example, a student must pass Freshman English before taking Sophomore English, and a student must pass Sophomore English before taking Junior English. There is no guarantee for class placement in the second semester should a course be failed in the first semester.

Electives

The English Department offers a number of electives which students are encouraged to take. All courses are designed to further develop thinking, reading, writing, and speaking skills. The following electives are offered as modified block semester courses: *Acting, College Prep, Creative Writing, Shakespeare for Everybody, and Reading & Writing Print & Digital Media*. *Basic English* may be offered, if sufficient enrollment, as semester blocks electives for students who need more work in fundamental language skills especially at the Freshman and Sophomore levels.

Writing Expectations Students are expected to write many times in many genres. And, for some assignments, they will be evaluated on the writing process from prewriting to the final draft, not just the final product in each class. As a result, they must participate in the on-going process in order to receive credit for the respective, required English courses. **Writing assignments must be submitted to turnitin.com.**

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Summer Reading

Students are required to read two novels prior to their grade-specific English course (excluding *Communications* class). Students will complete in-class evaluations based on the required title(s) and/or the self-selected book from a department list. The required novel is reviewed in class in much more depth beyond plot. AP English and HALE require more reading over the summer.

REQUIRED

Freshman English

Credit: 1 Grade 9

Prerequisite: 9th grade status

Required Summer Reading

This ninth grade survey course introduces students to the high school English program. Each unit is designed to establish an understanding of and appreciation for literature and a refinement of written communication skills. Skill work includes critical reading, grammar, vocabulary, and multiple paragraph writing. Students will continue to study a variety of literary genres including short story, poetry, mythology, drama, and the novel. Nonfiction text is also part of this course. In conjunction with the literature units, as well as independently of them, students will complete a variety of assignments utilizing the writing process, including expository and reflective writing. Recognizing that writing is a process, when appropriate, students shall be evaluated on the whole writing process from pre-writing to the final draft. As a result, they must participate in the ongoing process in order to receive credit for the assignment. Because class discussion is an important learning strategy, all students are expected to contribute regularly to class discussion and may be evaluated on their level of participation. All major assignments must be completed for students to receive credit for the course.

Communications 9

Credit: 1/2 Grade 9

Prerequisite: 9th Grade status

Summer Reading: None

Length: One 9-week block (coupled with Health)

The primary focus of this course is to lay the foundation for effective oral communication throughout the student's high school career. Students study the process of communication, components of verbal and nonverbal communication, critical and active listening skills, media literacy, and various forms of public speaking. Several speeches are assigned, along with a bit of debate, and delivery in front of a group is mandatory. Prior preparation for speaking includes researching, outlining, and preparing visual aids. Additionally, students will evaluate various types of communication situations. All major assignments must be completed for students to receive credit for the course.

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Sophomore English

Credit: 1 Grade 10

Prerequisite: Passing Freshman English

Required Summer Reading

This course is taken by all students during the tenth grade. A major area of study is expository and persuasive writing, including terms and format relevant to formal essays. Students will learn the five-paragraph essay structure and complete a literary analysis paper and a research-based, persuasion paper. Additionally, creative writing may be assigned in the short story unit, with written work also expected in the drama, poetry, and novel units. Interwoven with the expository writing, the literature portion of this course is designed to broaden the foundation in the study of the four most common categories of literature: short story, poetry, drama, and novel. Each of the four units will cover literary terms and conventions associated with the genre, with major writing assignments stemming from the literature. Students are expected to complete all reading and writing assignments on time. Because class discussion is an important learning strategy, all students will be expected to contribute regularly to class discussion and may be evaluated on their level of participation. The writing process, including editing, (MLA style), grammar and vocabulary review are all integral parts of the course. Students are evaluated on the writing process from pre-writing to the final draft, not just the final product. As a result, they must participate in the on-going process in order to receive credit for the course. All major assignments must be completed for students to receive credit for Sophomore English course.

Junior English

Credit: 1 Grade 11

Prerequisites: Successful completion of Freshman & Sophomore English

Required Summer Reading

This course concentrates on the theme of “the individual in the American environment.” Students read many autobiographical narratives, a 19th century novel, a 20th century novel, poetry, modern drama, essays, and literature from diverse cultures. Historical documents satisfy the nonfiction component of this course, along with texts that provide insight into the American character. Participation in discussions, group work, and other classroom activities are important components of the course. Thus, students are encouraged to listen, speak, read, write, and view critically. Papers of varying lengths and formats are required for every major unit of study. Students are evaluated on the writing process from prewriting to the final draft, not just the final product. As a result, they participate in the on-going process in order to receive credit for the course. The final evaluation will include a series of writings collectively titled the “Academic Resume,” and students will also complete a final exam. All major assignments must be completed for students to receive credit for the course.

Honors American Literary Experience: HALE

Credit: 1 English Credit

Prerequisites: Successful completion of Freshman & Sophomore English

This course welcomes students with high interest in American literature, great motivation to learn, and superior skill in language arts. Students can expect additional reading and writing assignments, including more summer reading. Time, effort, and daily preparation are expected in this course. Past experience suggests the most successful students are those who bring a solid academic background and a positive attitude to the class. Students should be willing to challenge themselves within a stimulating and competitive environment.

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Senior English

Credit: 1 Grade 12

Prerequisites: Passing Sophomore and Junior English

Required summer reading

Students will read drama, short stories, poetry, novels and essays that illustrate the concepts from the classical, Renaissance, Romantic, and modern eras. Class discussion on the reading is an important component of the course. Thus, students are required to listen and communicate orally in class. Visual and auditory materials may be used in conjunction with the literary selections. Papers of varying lengths and formats as well as tests serve as evaluation. Students will be evaluated on the writing process from pre-writing to the final draft, not just on the final product. As a result, they must participate in the on-going process to receive credit for the course. The final exam grade is a combination of an individual Senior paper (see below) and a test. All major assignments must be completed for students to receive credit for the course.

Senior Final Paper Assignment

As a culminating activity for all Senior English classes, students are required to complete an eight to ten-page paper in which they will analyze a novel, two short stories, and two poems. Students are prohibited from using works read in previous courses. With teacher approval, a student may substitute certain plays for portions of this assignment. Students will select a topic and trace the thematic development of that topic through each genre. Additional requirements will be reviewed in class. This paper will constitute one-half of the final exam grade. All papers will follow English Department guidelines for written work and the proper MLA format using a standard writing guide approved by the teacher and/or MLA references. Failure to submit work on designated deadlines will adversely affect the final grade for the paper. Students are also **REQUIRED** to participate in two writing conferences with their Senior English teachers regarding their progress on this paper. Senior Final Paper **must be submitted to turnitin.com**

Advanced Placement English

Credit: 1 Grade 12

Prerequisite: Strong interest & ability in English; attendance at AP night

Length: Full Semester block & required 2nd semester seminar

This course is for students who have demonstrated above average motivation, interest, and ability in English. Advanced Placement English replaces the credit that the student would otherwise have earned in Senior English class.

Advanced Placement English is a course which may enable students to receive college credit for their work. Thus, the Bay High English department feels a responsibility to teach this course at the college freshman level. Therefore, the expectations for the students are higher than those for other English or “honors” courses. (AP English teachers may require a recommendation at their discretion prior to a student registering for this course.) This class must hold a high priority in students’ lives. Further, the department believes that AP English is a course for students who will benefit from a challenging environment. This is not a course for every student, but we welcome those who have the desire to work hard and the ability to offer much. Our concern for the integrity of the course, the department, and the high school continually motivates us to keep the quality of this program at its highest level possible. When considering this course students must keep in mind the following requirements:

Summer Reading: Students will be required to read four books *and complete reading logs* before the first day of class. Students are encouraged to purchase their **own copies of the appropriate editions so that they may write in them.** (Approximate cost: \$125, new) Otherwise, students may borrow the texts from school.

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AP Test: All AP English students earning a C+ or higher are **required** to take the AP test in May. This is a requirement for the course; the school's AP Policy will be in place.

Preparation Time: We expect students to spend **60 minutes per day** preparing for class. This may include reviewing text, finding critiques, writing papers, preparing presentations, and engaging in independent research.

Written Work: All written work done outside of class must be turned in on the **due date** regardless of attendance. **No late work is accepted.** No paper, no credit. All papers are to be typed.

Attendance: Attendance counts. Because this course is a high priority, we expect absences to be held to a **minimum**. Please schedule appointments at other times. Students who know they will be absent must notify the teacher and get assignments **in advance** of the absence.

Class Involvement: Class discussion on the reading is an important component of the course. Thus, students are required to be actively and regularly involved in listening and communicating orally.

Group Work: Small groups are assigned responsibility for researching each major work. Group members are required to turn in a packet on the book before class discussion begins. The packet reflects original research on the writer's life and quotations from critics on the important characters, themes, and techniques in the work. The group is responsible for leading class discussions as well as discussing information contained within the packet.

Seminar: (2nd Semester required of all AP students) Students will attend 1-5 times per week, depending upon their schedule for a modified block. The student primarily will be engaged in independent study and individual conferences with the teacher to review and prepare for the AP test and to complete an independent study project. The student receives one-half credit and a weighted grade as per the AP guidelines.

ELECTIVES

Acting

Credit: 1/2 Grades 9-12

No Prerequisite

Length: Normally a Modified Semester Block

This semester elective is offered to all students in grades 9-12. The course is designed to allow students to express themselves orally through scene study and improvisation. Students participate in daily activities related to the study of acting, including the history of theatre. They will work individually and in groups on improvisational skills, memorizing and presenting scenes, as well as study stage makeup and movement. In the course, students will learn ways to prepare for a role in a play and also methods for building self-confidence before any group. During the semester, students will create a film that highlights different camera, sound and editing techniques to improve their fluency of visual literacy. Evaluations include scene presentation and monologue memorization. All major assignments must be completed to receive credit for the course.

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College Prep

Credit: 1/2 Grades 11-12

No Prerequisite

Length: Normally a Modified Semester Block

Preparation for the college experience and entrance exams will be the focus of this course. The course requirements include: completion of pre-tests and post-tests from the ACT and SAT, an information data sheet about colleges of interest as well as a scholarship search project, weekly vocabulary tests, and various homework assignments. Attendance is a vital factor in grasping tactics and strategies for test mastery and college search; therefore, attendance and participation in class are factors in the grade calculation. This course is highly recommended for those who want to build their confidence and abilities as they prepare for the college experience. This course is especially helpful for Juniors.

Creative Writing

Credit: 1/2 Grades 10-12

No Prerequisite

Length: Normally a Modified Semester Block

This modified semester elective is offered to students in grades 10-12. The course is designed to help students exercise their imagination and entice it to play on the page. The English language is not the property of a handful of writers; it is the heritage of all who speak it. Class time is spent reading superlative models, recognizing common attributes, and then writing original poems, short stories, essays, and film critiques. The process of writing is paramount as students gain control of the language and increase precision while exploring their creativity. Assessment on terms, self-evaluation, and all copies of revised and completed work constitute the grade. After revisions, students will accumulate work for their required final portfolio to showcase their best creative writing. All major assignments must be completed for students to receive credit for the course.

Shakespeare for Everybody

Credit: 1/2 Grades 10-12

No Prerequisite

Length: Normally a Modified Semester Block

Famous critic Harold Bloom once announced that “Shakespeare has such a unique place at the center of the Western literary canon, and it is nearly impossible to get too much of him.” We here at BHS agree! Come read, interpret, analyze, and present the Bard’s works. Students will be exposed to Shakespeare from the literary, historical, and theatrical perspectives. Also explored will be the relevant, contemporary social connections between his work and our world. During group and individual projects, comedy, tragedy, and history will be “played out.” Shakespeare’s poetry will be studied, as well. Students who like to read, imagine, and present, should consider studying William Shakespeare.

Print and Digital Media

Credit: 1/2 Grades 9-12

No Prerequisite

Length: Normally a Modified Semester Block

This is an elective semester course offered to all high school students. In this course, students study print and broadcast news for accuracy, relevance, and slant. Taught and practiced are basic journalistic skills such as accurately interpreting and relaying information through communication mediums, including social media. Following directions, critical listening, reading, and writing are emphasized. Units include the history of journalism, the creation of a documentary, and the analysis of editorials. Students applying for the Bay Window staff are encouraged to register.

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Digital Literacy

Credit: 1

Grade 9

Prerequisite: None

Length: Normally a modified year block

This course is a reading intervention class available to high school students. Students work at the computer during each class using several vendor programs and teacher-created materials that develop reading skills. The coursework includes reading comprehension strategies, fluency practice, vocabulary development, and structural analysis of the English language. Individualized instruction is prescribed based on diagnosis of each student's areas of weakness. Individual intervention is provided so that each student will be successful and make significant growth in reading. This class is set up to be a reading lab with assignments tailored to individual needs.

One of the major goals of this class is to improve reading abilities so students have the skills and confidence to read high school textbooks comfortably. Another goal is to use on-line assistive technology tools so that students have the tools for the completion of homework for other high school classes. Developing academic stamina and perseverance is another important goal of this class.

FAMILY AND CONSUMER SCIENCES

Appetite for Adventure

Credit: 1

Grade 11-12

Prerequisite: Successful Completion of Foods Lab Course Recommended

Skilled chefs will sharpen their basic cooking skills while traveling around the world discovering culinary treasures! This course will focus on cultural eating habits, preparation techniques, unique ingredients, and intriguing dishes. Explore the uniqueness and similarities of our country to those throughout the globe. Each week we will focus on a specific country as we explore their traditions and customs in relations to meeting the nutritional needs of the society. Guest speakers, field trips and service learning projects may also be included in this class. **This class is offered every other year. The class will be offered in the 2017-2018 upcoming school year.**

Calling All Cooks

Credit: 1

Grade 10-12

Prerequisite: None

Exploration of nutrition and practice of food preparation will be the focus of this course. Students will evaluate convenience foods, explore cultural influences on foods, present demonstrations of small appliances, and plan and implement a party. Coursework will also include a variety of culinary skills and techniques in the area of baking and cooking. Guest speakers, field trips and service learning projects may also be included in this class.

Fashion Runway 1

Credit: 1

Grade 9-12

Prerequisite: None

Get ready to sew! This program introduces the sewing basics including construction techniques, textiles and their uses. Students will learn about fiber, fabric, textiles, and finishes. We will explore basic color schemes and color theory and how they apply to the clothes we wear. There will be a minimum of three required swing projects per nine weeks. Students will be required to purchase their own materials. Guest speakers, a field trip, service learning projects and a fashion show may all be included in this program.

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Fashion Runway 2

Credit: 1 Grade 10-12

Prerequisite: Fashion Runway 1

Students will continue to work on developing their construction skills. Design concepts and designers will be explored and we will look at how clothing is merchandised. Students will be required to purchase their own materials. Fashion Runway II students will research a designer of their choice and construct a garment based on the designers style. Guest speakers, a field trip, service learning projects and a fashion show may all be included in this program. They will be required to complete a minimum of 3 projects per nine weeks.

Fashion Runway 3

Credit: 1 Grade 11-12

Prerequisite: Fashion Runway 2, Recommended for Students Pursuing a Career in Fashion

Students will begin to master their construction skills. Fashion Runway III students will work on a drafting and a draping project of their choice. These will count as one of their 3 projects that are due per nine weeks. Guest speakers, a field trip, service learning projects and a fashion show may all be included in this program.

Fitness Zone

Credit: 1 Grade 11-12

Length: Full Semester Block

Prerequisite: None

The student will gain a clear perspective on advanced concepts of food for health, fitness and sports. This course will place emphasis on eating healthy, developing specific sport skills, fitness needs of all people from varying cultures, age, applying fitness as a way of life affecting physical, mental and social choices. The students will practice cooking skills, participate in unique sporting opportunities, workout, and explore sporting activities from other cultures. Guest speakers, field trips and service learning projects may also be included in this class. **This class is offered every other year. The class will be offered in the 2018-2019 school year.**

High School Unwrapped

Credit: 1 Grade 9

Prerequisite: Admission to this course is by selection only.

Freshman Experience, a course taught in a small group setting, will be offered for select students looking to increase their skills toward academic success in high school. Units taught in this program include basic high school orientation, study skills, strategies for test taking, getting along with others, and career research.

Interior Design Challenge

Credit: 1 Grade 11-12

Prerequisite: None

Principles and elements of design will be explored including floor to ceiling products, materials, and floor plan development. Determine needs and wants in space design, color analysis, furnishings, safety considerations, textiles, accessories and traffic flow needed in every room of your home. Students will do room designs including design boards we with chosen materials. Field trips, service learning projects, and speakers may be included. **This class is offered every other year. The class will be offered in the 2018-2019 school year.**

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Master Your Future

Credit: 1 Bay High Grade 11-12

CC+ Credit: 3 Potential

Prerequisite: None

This class is designed to prepare students for career decisions. Students will experience personal interest profiles, career research, resume writing, dressing for success and interview skills. Personal finance will be an important part of this course focusing on budgeting, credit card management, banking and insurance. A job shadow and a personal finance research project are included in this course.

Modern Family

Credit: 1 Grade 10-12

Length: Full Semester Block

Prerequisite: None

Lifestyles have changed greatly affecting both family and society. Family coordination and problem solving skills will be developed so that students will succeed in strong family relationships and be prepared to cope with many problems facing families today. Students will better understand human development starting from conception through all stages of life and care for the "Baby Think it Over". Students will gain a better relationship with the adults in their life. Class discussions, guest speakers, field trips and experiences outside the classroom are used to enrich this life skills class. **This class is offered every other year. The class will be offered in the 2017-2018 upcoming school year.**

On Your Own

Credit: 1 Grade 9-10

Length: Full Semester Block

Prerequisite: None

This class will explore the areas of Family and Consumer Science. Students will learn about interior design, textiles and clothing construction, stress management, money management, basic food preparation, and career choices. Guest speakers, field trips and service learning projects may also be included in this class.

CAREER BASED INTERVENTION (CBI)

Credit – Full year – 4 credits

15 periods per week

Grades 11&12

Prerequisite: Administrative Approval/Placement

CBI is a program designed for students interested in gaining work experience while establishing future career, educational, and/or training goals. The program design is ideal for students needing a more flexible schedule to earn their high school credits towards graduation. During the year long program, students will attend one block a day in a career and life planning "Related" class, where they will learn about topics such as workforce trends, career planning, and money management. Additionally, students will spend at least one block per day (typically more) honing their employability skills and applying what is learned in class at a paid or unpaid (volunteer) worksite.

2017-2018 Course Selection Guide

WORLD LANGUAGES

The French Department is currently exploring the development of a partnership with Tri-C West Shore to offer French courses through the College Credit Plus program. If you are interested in taking French courses for college credit, please stop by room 114 and tell Mrs. Dempsey. Which courses and how many credits is not known at this time, but that information should be available in early 2017. This will not affect the AP course.

French 1

Credit: 1 Grades 9-12

No Prerequisite/not available to students with previous language experience unless teacher recommendation given. This course is highly recommended as an option for freshmen and sophomores who were not successful in Spanish at the middle school.

This course is a beginning class to learn French. French will be spoken up to 90% of the time. Both oral and written skills in French are stressed, but more class work is devoted to the conversational aspects of the French language, involving pronunciation and the formation of ideas in the language. Students must be prepared to listen carefully and to participate orally each day. In addition to the language, students begin the study of the culture and civilization of French speaking countries. Students learn to compare and contrast French and American cultures. Reading skills are introduced. There is much emphasis on how to study and how to learn a foreign language.

French 2

Credit: 1 Grades 9-12

Prerequisite: Demonstrated mastery of French 1 (H.S. or M.S.) OR previous experience in another world language, with a grade of at least C.

This course is a continuation of the French 1 program. Speaking practice is expanded with more work on pronunciation, sentence formation and structure. French will be spoken up to 90% of the time. Reading and writing are emphasized more than in French 1. All exercises and tape work are done in French. Videos, CDs and internet sites are used as learning tools. This is the first level for students with previous world language experience, and those students will be expected to complete supplemental activities on their own. Students are expected to participate fully in the process of learning to speak French and exploring the culture of French-speaking people.

French 3

***Recommended for sophomores**

Credit: 1

Prerequisite: Demonstrated mastery of French 2.

This course is a continuation of the French 1 and 2 programs. The primary emphasis of this course is the expression of ideas in French. French will be spoken up to 90% of the time. All exercises and listening work are done in French. Videos, CDs and internet sites are used as learning tools. The use of French is encouraged for most activities with the use of authentic films which enhance the French experience. Students will begin to read authentic French stories and a short novel. Students are encouraged and expected to speak French when communicating in the classroom. Individual participation in oral and written activities is required. Students will review the geography of France and be introduced to other French speaking countries. Students are expected to be self-directed and engaged in the process of learning to communicate in French and exploring the cultures of French-speaking people.

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French 4

***Recommended for juniors**

Credit: 1

Prerequisite: Demonstrated mastery of French 3.

This course includes more practice, speaking and listening, while at the same time conducting an in-depth study of grammatical concepts. French will be spoken up to 90% of the time. Students will read a work of French literature. They will watch and discuss a prize-winning work of French cinema. The goal of the class is to establish a degree of fluency in all four language skills: speaking, listening, reading and writing. Students are encouraged and expected to move toward more expression in French by the end of the course. Teaching materials will include authentic sources from the Francophone world. Students are expected to be self-directed and engaged in the process of learning to communicate in French and exploring the cultures of French-speaking people.

French 5

***Recommended for seniors**

Credit: 1

Prerequisite: Demonstrated mastery of French 4 AND teacher recommendation.

This is an advanced course which emphasizes the skills leading to total communication in French. French will be used 90% of the time in the classroom. Students will be encouraged to use on-line media, magazines and blog sites to better understand current issues of the francophone world. Classical works will also be studied through novels, short stories, poetry, film and music. A textbook is used to review and continue some higher-level grammar. There will be opportunities for individual research that will be shared with the class for presentation and discussion. Students are expected to be self-directed and engaged in the process of learning to communicate in French and appreciating the cultures of French-speaking people.

AP French

***Recommended for Seniors**

Credit: 1

Prerequisite: French 4 and/or French 5 AND teacher recommendation AND permission

This course is designed for the advanced student who is both willing and able to accept a challenge. A course requirement is to take the 3 1/2 hour Advanced Placement examination in May. Intense study and practice in speaking, listening, reading and writing are included in the course. Several purchases are required, including an advanced grammar review and an AP study book. Parental and French 4 or 5 teacher permission are required. Students are expected to be self-directed and engaged in the process of learning to communicate in French and appreciating the cultures of French-speaking people. Students are encouraged to take French 5 prior to this course. See French teachers for further information.

In the event that AP and French 5 are combined:

Students will be given the opportunity to follow the course work as French 5 or AP French. The curriculum of the classes would be combined. The AP students would be required to work with AP manuals and be expected to accept the challenge to study and prepare for the AP test outside of class, in addition to completing the work done in the French 5 class.

To keep language continuity and to prepare for college placement in the senior year, this course may be taken twice, once as French 5 and then as AP French.

Please see the description of French 5 and AP French for a more thorough explanation.

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Spanish 1

Credit: 1 Grades 9-12

No Prerequisite/Not available to students with previous language experience unless given permission by teacher. This course is not recommended for freshmen who were not successful in previous Spanish classes. Please refer to the course description for French 1.

This is an introductory course for students with no previous experience in Spanish. Emphasis is on learning a new sound structure and new means of communication. Both oral and written skills are stressed, but more class work is devoted to the conversational aspects of the language. Students will be expected to move toward increased oral production of the language throughout the semester. CD's, DVD's and websites with authentic Spanish speakers are used regularly in class. Students must be prepared to listen carefully and to participate orally in Spanish each day. In addition to the language, students begin the study of the culture and civilization of all Spanish-speaking countries. There is much emphasis on how to study and learn a foreign language.

Spanish 2

Credit: 1 Grades 9-12

Prerequisite: Demonstrated mastery of Spanish 1 or Spanish in Grade 8 (H.S. or M.S.) OR previous experience in another world language, with a grade of at least C.

Length: (Semester block or modified yearlong block)

Spanish 2 offers the learner the opportunity to continue developing communicative competencies in listening, speaking, reading and writing. Spanish will be spoken up to 90% of the time. Increased understanding of the culture of Spanish-speaking countries is also an important course objective. Learning can be enhanced by the use of a variety of media and technology such as CDs, DVDs and Internet sites related to the text. This is the first level for students with previous world language experience, and those students will be expected to complete supplemental activities on their own. Students are expected to participate fully in the process of learning to speak Spanish and exploring the cultures of Spanish-speaking people.

Spanish 3

***Recommended for sophomores**

Credit: 1

Prerequisite: Demonstrated mastery of Spanish 2

Spanish 3 offers a framework of language development, cultural awareness and use of technology as per the Spanish 2 course description. The students will take a major part in the presentation of individual projects. This course includes more practice, speaking and listening. The communicative tasks to be mastered are, of course, increasingly complex as the learner progresses. Use of the target language up to 90% of the time as a medium of instruction and communication sets the stage for expectations of advanced language courses. Students are expected to participate fully in the process of learning to speak Spanish and exploring the cultures of Spanish-speaking people.

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Spanish 4

Credit: 1

***Recommended for juniors**

Prerequisite: Demonstrated mastery of Spanish 3

The goal of the course is for the student to be able to understand and converse in Spanish. In order to achieve this goal, a great deal of speaking, writing and reading in the target language is necessary. Students will be encouraged and expected to move toward primary expression in Spanish. Most coursework will be taught in Spanish. The class will use many materials, such as newspapers, magazines, videos and short stories. A variety of media and technology such as CDs, DVDs, and Internet sites related to the text will also be used. Students are expected to be self-directed and to participate fully in the process of speaking Spanish and exploring the cultures of Spanish-speaking people.

Spanish 5

***Recommended for seniors**

Credit: 1

Prerequisite: Demonstrate mastery of Spanish 4 AND teacher recommendation

This is an advanced course for students wanting to polish their Spanish skills with emphasis on conversational skills. Students are expected to speak only Spanish in the class. Students will read a variety of authentic materials to be used as a springboard for class discussion. Cultural videos and feature films are used to improve listening skills and for discussion. Library work, newspapers and magazines will improve awareness of customs and culture. Learning is enhanced by a variety of media and technology such as software, CDs, films and Internet sites related to Spanish language acquisition. Another course goal is vocabulary building. The grammar focus this year is review, with emphasis on areas of difficulty for English speakers. Students are expected to be self-directed and to participate fully in the process of speaking Spanish and exploring the cultures of Spanish-speaking people.

AP Spanish

Credit: 1

***Recommended for Seniors**

Prerequisite: Spanish 4 and/or Spanish 5 AND teacher recommendation AND permission

This course is designed for the advanced student who is both willing and able to accept a challenge. A course requirement is to take the 3 1/2 hour Advanced Placement examination in May. Intense study and practice in speaking, listening, reading and writing are included in the course and woven throughout the six themes of the AP Curriculum. Learning is enhanced by a variety of media and technology such as software, CDs, films and Internet sites related to Spanish acquisition. Purchase of an advanced grammar text and guide to the AP test are required. Students are expected to be self-directed and to participate fully in the process of learning to speak Spanish and exploring the cultures of Spanish-speaking people. Parental and Spanish 4 and/or 5 teacher permission are required. Students are encouraged to take Spanish 5 prior to this course. See Spanish teachers for further information. Students taking AP Spanish may be required to complete additional work outside of class time.

In the event that AP Spanish and Spanish 5 are combined:

Students will be given the opportunity to follow the course work as Spanish 5 or AP Spanish. The curriculum of the classes would be combined. The AP students would be required to work with AP manuals and be willing to accept the challenge to pursue more intensely the study of Spanish.

This course can be taken twice, once as Spanish 5 and then as AP Spanish. Please see the description of Spanish 5 and AP Spanish or a Spanish Teacher for a more thorough explanation.

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HEALTH

Health

Credit: 1/2

Grade 9

Length: Half Semester Block or Modified one period semester offering

(Paired with Communications 9)

This quarter course is required for all students. Students will focus on ways they can improve their total health - physically, mentally, emotionally, and socially. The information used in the class will not only help the students now but also as they grow into mature adults.

This objective will be facilitated by offering the following units:

1. Introduction to Health:

Students will learn information about exercise, nutrition and sleep. Organizational skills and self-esteem concepts will also be discussed.

2. Communication:

Student will learn skills that will help improve relationships with family and friends. Skills will include the art of speaking, listening and focusing on the needs of others. Resolving conflicts and anger management will also be discussed.

3. Coping with stress:

Students will learn what causes stress, the signs of stress, the results of stress, and the ways to handle stress.

4. Dating and Human Sexuality:

Students will receive information related to dating, relationships and love. Many social skills will be developed such as asking someone out, how to refuse a date, conversation, manners and behaviors on a date.

5. Alcohol/Tobacco/Drug Education:

Students will learn about the health consequences of abuse and addiction as it relates to alcohol, tobacco, and other drugs.

The students will be required to keep abreast of these areas by reading newspaper and magazine articles. Major and minor projects will also be required to help facilitate learning.

Physical Education

Credit: Two ¼ credit courses required

Grade 10

10th Grade Course Length:

Block or modified one period semester offering

The physical education curricula are required to ensure that the student has the opportunity to participate in a variety of team sports, individual sports, leisure time and fitness activities. Throughout the year, students experience a variety of physical activities, which promote normal growth and development, while increasing strength, flexibility, and endurance.

Fitness Gram has been adopted into the Physical Education program (K-12). This program will set our guidelines for student achievement in Physical Education. We will have the ability to track students in various fitness components.

2017-2018 Course Selection Guide

MATHEMATICS

A graphing calculator is required for all mathematics courses at Bay High School. The mathematics department recommends the purchase of a TI84+ or a TI-Nspire. Students may continue to use a TI83+ if they already own one. Students who purchase a TI-Nspire CAS or a TI-89 with CAS should realize that they may not be able to use these more powerful calculators on some classroom tests and will not be allowed to use these calculators on the ACT. Calculators with a Computer Algebra System (CAS) may be used on the SAT and on Advanced Placement Exams.

In each of the following integrated mathematics courses, important concepts of algebra and geometry are integrated with related topics in discrete math, statistics, and probability. Students use an investigative, problem-solving approach to learn about important mathematical concepts in the context of real-life applications. "honors courses" cover some additional topics and cover the material in the related "non-honors course" at a faster pace and/or in more depth.

Introduction to Integrated Mathematics

Credit: 1 Grade 9

Length: Full semester block

Students will be placed in this course based on teacher recommendation.

The purpose of this course is to review and build upon important mathematical concepts learned at the middle school. Students will study a variety of topics that will prepare them for success in "Integrated Algebra/Geometry 1". Students will study properties of numbers, algebraic representations of patterns and data, the properties/measurements of plane geometric figures, the collection and analysis of data, and the basic concepts of probability.

Integrated Algebra/Geometry 1 or IAG1

Credit: 1 Grade 9

Length: Full Semester Block

Prerequisite: Completion of Connected Math or a Pre-Algebra/Pre-Geometry program.

Topics covered in this course include: Recognizing patterns of change among variables and representing those changes using tables, graphs, words and symbols; using linear and exponential functions to model real-life situations; solving linear equations; simplifying algebraic expressions; solving systems of equations and inequalities; solving linear programming problems; using coordinate methods for representing and analyzing geometric shapes and describing geometric transformations; discovering and applying properties of two-and three dimensional shapes, including angle relationships, and area; using informal and formal proofs to make conclusions about angle relationships; exploring congruence of triangles; analyzing data using summary statistics; and using least squares regression to create and interpret prediction lines for paired data.

Integrated Algebra/Trigonometry/Geometry 2 or IATG2

Credit: 1 Grades 10-11

Length: Full Semester Block

Prerequisite: Successful completion of IAG1.

Topics covered in this course include: applying direct and inverse variation, solving systems of equations, using coordinate methods for representing and analyzing geometric shapes and describing geometric transformations, using least squares regression to create and interpret prediction lines for paired data, solving linear, radical, quadratic and simple exponential equations, developing the concepts of function, domain and range, developing and applying both triangle trigonometry and trigonometry in the coordinate plane, and solving probability problems through rules and simulation.

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Honors Integrated Algebra/Trigonometry/Geometry 2 or HIATG2

Credit: 1 Grades 9-10

Length: Full Semester Block

Prerequisite: Successful completion of IAG1 and permission of their mathematics teacher.

Additional topics covered in this course not covered in IATG2 may include: using matrices to represent and solve real-world problems and solve systems of equations, using matrices to perform geometric transformations, working with probability distributions and calculating expected value.

Integrated Algebra/Trigonometry/Geometry 3 or IATG3

Credit: 1 Grades 10-12

Length: Full Semester Block

Prerequisite: Successful completion of IATG2

Topics covered in this course include: using inductive and deductive reasoning in a variety of everyday situations and mathematical contexts, segments and lines associated with circles, similar figures, congruent figures, and properties of polygons, developing and applying circular trigonometry, analyzing and graphing some trigonometric functions, modeling situations with polynomial and rational functions, performing operations on expressions and/or solving equations involving polynomial, and rational functions.

Honors Integrated Algebra/Trigonometry/Geometry 3 or HIATG3

Credit: 1 Grades 10-11

Length: Full Semester Block

Prerequisite: Successful completion of HIATG2 and permission of their mathematics teacher.

Additional topics covered in this course not covered in IATG3 include: using informal and formal proofs to make conclusions about segments and lines associated with circles, analyzing and graphing all trigonometric functions, performing operations on expressions and/or solving equations involving exponential and logarithmic functions.

Intro to Pre-Calculus with Trigonometry or IPCT

Credit: 1 Grades 11-12

Length: Full Semester Block

Prerequisite: Successful completion of (H)IATG3 and permission of their mathematics teacher.

Note: Students who wish to complete a full pre-calculus course should also take Honors Pre-Calculus.

Topics covered in this course include: review of key algebraic, geometric, and trigonometric concepts covered in the last three courses, using matrices to represent and solve real-world problems and to solve systems of equations, developing and using systematic counting, developing and applying circular trigonometry, transforming and combining linear, quadratic, power, exponential, logarithmic and trigonometric functions, solving and graphing equations involving trigonometric, inverse trigonometric, exponential, logarithmic, polynomial, and rational functions, analyzing and graphing conic sections, developing, applying and proving properties of geometric circles .

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Honors Integrated Pre-Calculus 4 or HIPC4

Credit: 1 Grades 11-12

Length: Full Semester Block

Prerequisite: B or higher in HIATG3 or successful completion of Introduction to Pre-Calculus with Trigonometry and permission of their mathematics teacher.

Topics covered in this course include: transforming and combining linear, quadratic, power, exponential, logarithmic and trigonometric functions, applying properties of two-dimensional vectors, performing operations on two-dimensional vectors and using vectors to model motion, understanding and applying properties of rational and polynomial functions, developing skill in manipulating algebraic expressions and solving equations involving rational and polynomial functions, solving trigonometric equations and proving trigonometric identities, representing complex numbers using vectors and trigonometry, applying arithmetic operations on complex numbers including powers and roots, understanding properties of natural logarithmic and exponential functions and using the properties to solve exponential growth and decay problems, developing the ability to count systematically and to write proofs using mathematical induction, understanding and applying the binomial theorem, working with relations that are not functions such as parametric equations, polar equations, and conic sections, developing and understanding concepts related to limits, derivatives, and integrals.

Statistics

Credit: 1 Grade 12

Length: Full Semester Block

Prerequisite: Successful completion of (H)IATG3 or (H)IPC4

Students will be introduced to the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns in advance, and statistical inference. The direct application of statistical techniques on standard problems, simulation, and the analysis of graphical representations will be emphasized. More class time is available for practicing the basic concepts of the course. Students majoring in engineering, business, nursing, and the life and social sciences must take a statistics course in college.

AP Statistics

Credit: 1 Grades 11-12

Length: Full Semester Block during the first semester. The ½ credit second semester seminar and AP exam are required of all students earning a C+ or higher during the 1st semester.

Prerequisite: B or above in HIATG3, HIPC4, or IPCT and other academically challenging courses requiring strong analytical, organizational and study skills. Students who have only completed (H)IAGT3 are required to also register for Introduction to Pre-Calculus with Trigonometry or Honors Pre-Calculus in addition to AP Statistics. Permission from their mathematics teacher is required.

Students will develop major theories and techniques for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns in advance, and statistical inference. Solving real-life problems that require the use of statistical inference and a combination of statistical techniques will be emphasized. Students majoring in engineering, business, nursing, and the life and social sciences must take a statistics course in college.

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AP Calculus AB

Credit: 1 Grade 12

Length: Full Semester Block during the first semester. The ½ credit second semester seminar and AP exam are required of all students earning a C+ or higher during the 1st semester.

Prerequisite: B or above in HIPC4 and other academically challenging courses requiring strong analytical, organizational and study skills. Permission from their mathematics teacher is required. IPCT alone is not an acceptable prerequisite for this course.

The topics covered in this course include limits, derivatives and their applications, indefinite integrals, and definite integrals and their applications. This course is equivalent to two quarters of college calculus. Students majoring in engineering, business, and the physical sciences will be required to take calculus in college.

AP Calculus BC

Credit: ½ Grade 12

Length: Part of 2nd semester seminar. AP Exam is required.

Prerequisite: B+ or above in AP Calculus AB and permission from their mathematics teacher.

This course is an extension of AP Calculus AB. Students will study special integration techniques, the calculus of parametric, polar, and vector-valued functions, infinite series including Taylor and Maclaurin series, and methods for determining whether a series converges or diverges.

AP Computer Science Principles

Credit: 1 Grade 10-12

Length: Full Semester Block

Prerequisite: Successful completion of IATG2 or HIATG2; attendance at AP night

This course will introduce you to the essential ideas of computer science and show how computing and technology can influence the world around you. You will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers do to bring ideas to life. AP Computer Science Principles asks students to explore the central ideas of computing and computer science. The course is centered around seven big ideas: Creativity, Abstraction, Data and Information, Algorithms, Programming, The Internet, and Global Impact. This course is a great introduction to the world of computer science.

AP Computer Science A

Credit: 1 Grade 10-12

Length: Full Semester Block

Prerequisite: Successful completion of AP Computer Science Principles or recommendation from Mr. Neibecker; attendance at AP night.

In this course you will learn to design and implement computer programs that solve problems relevant to today's society, including art, media and engineering. This course teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science programming. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems.

2017-2018 Course Selection Guide

MUSIC

Choral Music

BHS Choir

Credit: 1 **Grade 9 and 10-12th grade males with permission**

Prerequisite: None

Length: Modified Year Block

The BHS Choir is open to all Freshmen and 10-12th grade males, with permission, who enjoy singing and are eager to learn about choral music. This is a non-auditioned choir that is made up of both male and female students. There are 5 concert requirements throughout the year. Start your high school career by joining a choir and being involved in a long history of success!

Treble Choir

Credit: 1 **Grade 10-12**

Prerequisite: If unsure of vocal range, meet with Mrs. Gess

Length: Modified Year Block

Needed Range: Soprano C4 - C6 Mezzo Soprano A3 - A5 Alto F3 - F5

The Treble Choir is offered to all students in grades 10-12. Students must be able to sing between an F3 - C6 vocal range comfortably. If you are unsure of your vocal range, please see Mrs. Gess. This group meets as a skinny, during 3A. There are 5-6 concert requirements throughout the year. You may alternate with Orchestra and be in both. This choir gets to stand on the famous holiday singing tree!

A Cappella Choir

Credit: 1 **Grade 10-12**

Prerequisite: Audition and Choir Director Approval

Length: Modified Year Block

The Bay High A Cappella Choir has a long standing tradition of being one of the leading choirs in the area. It is a mixed ensemble of 98 (male and female), 10th – 12th grade, selected by audition only, that meets during the 3C class time. Auditions for this group will be held in the Spring. There are 7-8 concert requirements for this class. The music chosen for this class is anything from Mozart to Queen. The literature is challenging and yet fun. See Mrs. Gess if you wish to audition for this course...schedules will be finalized after the auditions in the spring.

Choraleers

Credit: 1 **Grade 10-12**

Prerequisite: Audition, Choir Director Approval and Membership in the A Cappella Choir

Length: Modified Year Block (7:00 a.m.)

The Choraleers is a select mixed group of sixteen singers (8 male and 8 female) that are chosen directly out of the A Cappella Choir. This group meets at 7:00 a.m. each morning, performs both in and out of school and travels to various places throughout the community, especially during the holiday season. Auditions are held in the spring. The concert requirement is 15-20 concerts a year. This is an intense ensemble that sings very challenging music.

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Trouble & Bass

Mixed Show Choir

Credit: 1 Grade 10-12

Prerequisite: Audition and Choir Director Approval

Length: 1st Semester

Description/Procedure for Joining Trouble & Bass

Trouble & Bass Show Choir is an auditioned group. The auditions are held in the spring. This group meets for the first semester only. Students in this class study both singing and dance to make up routines for concerts. The ladies and guys will also perform pieces separately as well. Singers must be creative and also be able to dance. There is a 4-5 concert requirement.

Music Theory/History

Credit: 1 Grade 9-12

Prerequisite: None

Length: 2nd Semester

Music Theory/Music History is offered only 2nd semester. You will learn about music notation, rhythm, scales, key signatures, time signatures, intervals, chords, harmonies, arranging, listening and sight-reading.

The Music History section will expose you to composers and musical literature from the Western Worlds and following periods: Renaissance, Baroque, Classical, Romantic, and Twentieth Century. We also try to take a school day and go to a Cleveland Orchestra performance at Severance Hall.

Instrumental Music

Symphonic Band

Credit: 1 Grades 10-12

Prerequisite: Concert Band and Audition

Length: Modified Year Block

This ensemble performs advanced literature from the collegiate level. Students membership in this organization is based upon audition at the end of the year. Symphonic Band is for advanced, talented and self-motivated band members.

Students considered for membership should have solo and ensemble experience and a mature attitude towards perfecting musical objectives. Students will be expected to perform at all contests and concerts. Assessment includes both written and playing.

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Concert Band

Credit: 1 Grade 9-12

Prerequisite: None

Length: Modified Year Block

Concert Band is for 9th graders and upperclassmen electing band for the first time at BHS. Upperclassmen who wish to be a member of symphonic band will be enrolled based upon audition at the end of the school year.

Principle objectives are further development of the student's proficiency on their instrument, thus providing an opportunity to learn and perform a wide range of music literature that will lead to a better understanding of the applied and cultural aspects of music. Assessment includes both written and playing. Students will be expected to perform at all contests and concerts. Participation in Solo and Ensemble contest is encouraged.

Marching Band

The goal of marching band is to present new heights in both visual and musical interest for our constituency, and to add increasing pride and dedication among band members towards their role as the centerpiece of spirit and entertainment at Bay football competitions and other performances.

Membership in the "Rocket Marching Band" is open to any student enrolled in concert or symphonic band. All members are expected to be in attendance at all rehearsals and performances, including band camp and after school, unless specifically excused by the Band Director. All Freshmen and first year in the high school instrumental program students are required to be in the Marching Band. Marching Band rehearsals beginning in August, with band camp scheduled two weeks prior to the beginning of the school year. Attendance is mandatory. Once school begins, there are daily rehearsals during the scheduled school day as well as Tuesday evening rehearsal from 6:00p.m. until 7:30 p.m. and Thursday evening from 7:00p.m. until 9:00 p.m.

Marching Band does not keep anyone from participation in the fall interscholastic sports or extra-curricular activities. Conflicts between band rehearsals and events, if any, are resolved by the Band Director and coaches. Rockette members who are enrolled in a band will attend the daily rehearsals during the first nine weeks.

Marching Band performs at all varsity football games and typically two other events that may include a parade, band festival and a collegiate or pro football game. The Marching Band has also been known to travel to national events on occasion.

Concert/Symphonic Band Addendum

Students who do not participate in Marching Band will be assigned to study hall for the first nine weeks. Three quarters of band will result in .75 credit.

Jazz Ensemble/Stage Band

Credit: 1 Grade 9-12

Prerequisite: Concurrent enrollment in an instrumental ensemble, teacher approval, and audition.

Length: Modified Year Block 7:00 a.m.

Large Jazz Ensemble - instrumentation is two alto saxes, two tenor saxophones, baritone saxophone, four to five trumpets, four to five trombones, string bass or bass guitar, guitar, keyboard, drums and vibes. Literature is selected from arrangements written for professional big bands, past and present. Learning the rudiments of jazz improvisation is an important part of this course. Exceptions to the prerequisite would be guitar, bass, and keyboard players who do not play a concert band or orchestra instrument. There are currently two sections of this course which include the jazz ensemble and stage band. Ninth graders are enrolled in stage band. Assessment includes both written work and playing tests and all students are expected to perform at all contests and concerts.

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Orchestra

Credit: 1

Prerequisite: 8th Grade Orchestra OR audition/interview

Length: Modified Year Block

Orchestra is a performance-based course open to all string players (violin, viola, cello, double bass). String students will perform selected music from the OMEA High School Class A and B lists and comparable literature. Students will also collaborate with selected members of the Symphonic Band to present full orchestral works. Emphasis is placed on advanced pedagogical techniques as well as theory, expression and performance. Assessment includes written work and playing tests. Performance experiences include concerts, festivals, recitals and adjudicated events. Attendance is required at ALL performances and after-school or evening rehearsals.

SCIENCE

Students are required to take three science courses as a minimum for graduation. Physical Science and Biology are two courses that are required of all students. In addition, all students are required to take at least one of the following; Chemistry, Physics or Environmental Science as their third required course. Each student must take Physical Science, Biology, Chemistry and in order to advance to an Advanced Placement course. Most graduates will finish with at least 4 credits in science, if not 5-7. Most science courses require basic algebra, graphing, and problem solving skills. Completion of the CORE Science Program prior to AP study is supported by a variety of sources.

Students are recommended to have a discussion with their current science teacher and the teachers of the Honors/AP classes to get further information about their desired science path. Students interested in taking 5-6 science classes (including an AP class), it is recommended that you double up either your Freshman year (Physical Science and Biology) or your sophomore year (Biology and Chemistry/Honors Chemistry). Students who are interested in completing multiple AP classes in science are recommended to double up their Freshman year (Physical Science and Biology) and their Sophomore year (Honors Chemistry and Honors Physics). Students should consider planning their science schedule 2 years in advance, because many classes are only offered during certain semesters and the prerequisites that are required for success.

Physical Science: Required

Credit: 1 Grade 9

Prerequisite: None

Math Requirement: None

Length: One Semester

Physical science is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. Three major units of study are Astronomy, Chemistry, and Physics. Students will be encouraged to explore the relationship between science and everyday life.

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Biology: Required

Credit: 1 **Grades 9-10**

Prerequisite: None

Math Requirement: None

Length: One Semester

Biology is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. This course has an end of the year exam with a score that is applied towards graduation.

Chemistry

Credit: 1 **Grades 10-12**

Prerequisite: Physical Science and Biology

Math Requirement: IATG2 completed or taken concurrently

Length: One Semester

Chemistry is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course introduces students to key concepts and theories that provide a foundation for further study in other sciences as well as advanced science disciplines. Chemistry comprises a systematic study of the *predictive* physical interactions of matter and subsequent events that occur in the natural world. The study of matter through the exploration of classification, its structure and its interactions is how this course is organized. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. An understanding of leading theories and how they have informed current knowledge prepares students with higher order cognitive capabilities of evaluation, prediction and application. More time is spent developing problem solving skills and the math is taught at a slower pace than in honors chemistry.

Physics

Credit: 1 **Grades 10-12**

Prerequisites: Physical Science, Biology, Chemistry

Math Requirement: IATG 2 completed

Length: One Semester

Physics is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. Physics elaborates on the study of the key concepts of motion, forces and energy. Students engage in investigations to understand and explain motion, forces and energy in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. The course approaches physics from a more descriptive, conceptual, and less mathematical point of view, and algebra and equation solving skills are used in laboratory and testing.

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Honors Chemistry

Credit: 1 Grades 10-12
Prerequisite: Physical Science and Biology
Math Requirement: IATG 2 (HITAG2 preferred)
Length: One Semester

Honors Chemistry is intended for students who plan to major in science and/or engineering in college, but it may be taken by other high ability students. Major topics include the mole concept, formulas, stoichiometry, gases, phase change, solutions, Periodic Table, atomic structure, electron configuration, bonding, thermochemistry and calorimetry, kinetics, and equilibrium. Problems of a quantitative nature which require thoughtful analysis are emphasized. Students who take this course typically have a strong interest in science, or may be considering health, medical, veterinary science, and engineering sciences in college. Formal Laboratory reports are done on a regular basis.

Environmental Science

Credit: 1 Grades 11-12
Prerequisite: Physical Science, Biology, (Teacher Placement if going to be last science credit), Chemistry AND/OR Physics
Math Recommendation: IAGT2
Length: One Semester

Environmental Science is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. It should be noted that there are classroom examples in the model curriculum that can be developed to meet multiple sections of the syllabus, so one well-planned long-term project can be used to teach multiple topics.

This course is designed to be an upper level elective (4+ science credit) and will be problem based. Lab requirement. Students must complete chemistry before taking this course*. This course is designed to make students more environmentally aware and will be lab and project based.

*Students who have not passed the Biology AIR test will be placed in Environmental Science. Students who have not completed the math requirements to take chemistry will be enrolled in Environmental Science and will have the opportunity to enroll in chemistry after completion of Environmental Science. Students who are seniors to be who have not earned their 3rd science credit will get priority.

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Human Anatomy & Physiology

Credit: 1 **Grades 11-12**

Prerequisites: Physical Science, Biology, Chemistry

Math Requirement: IATG 3

Length: One Semester

Human Anatomy and Physiology is an upper-level, elective science course offered at Bay High. The focus will be on the function and structure of the human body. An additional emphasis will be placed on disease as it relates to today's society. Students will be required to dissect and will be given numerous lab practical exams. Dissections include a mammal and various mammalian organs. This course is offered to students who wish to get a thorough understanding of the human body. This class offers the opportunity for students to learn through dissection, models, as well as applications to their own well-being.

AP Biology

Credit: 1 **Grades 11-12**

Prerequisites: Physical Science, Biology, and Chemistry

(Can be coupled with Anatomy and Physiology but no longer a year long class)

Math Requirement: IATG 3

Length: One Semester

The revised AP Biology course addresses this challenge by shifting from a traditional "content coverage" model of instruction to one that focuses on enduring, conceptual understandings and the content that supports them. This approach will enable students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, and will help them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Biology.

To foster this deeper level of learning, the breadth of content coverage in AP Biology is defined in a way that distinguishes content essential to support the enduring understandings from the many examples or applications that can overburden the course. Illustrative examples are provided that offer teachers a variety of optional instructional contexts to help their students achieve deeper understanding. Additionally, content that is outside the scope of the course and exam is also identified.

Students who take an AP Biology course designed using this curriculum framework as its foundation will also develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses — a goal of every AP course.

The Advanced Placement Biology aims to provide the student with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology in a lab intensive environment. The Advanced Placement exam is required. A student is expected to spend a minimum of 5 hours per week outside of class in preparation and study. After the exam, class time is devoted to student interest projects.

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AP Chemistry

Credit: 2 Grades 11-12

Prerequisites: Physical Science, Biology, Honors Chemistry (at least a B+ average) or Chemistry (at least a B+ average). It is strongly recommended that students complete Honors Chemistry for this course instead of Chemistry. According to the College Board: “The AP Chemistry course is designed to be taken only after successful completion of a first course in high school chemistry.” Physics or H Physics/AP Physics (B+ average) must either be completed as a prerequisite or as a co-requisite with AP Chemistry.

Math Prerequisite: HIATG 3 (strongly recommended, at least a B+ average) or IATG 3 (at least a B+ average).

Length: 2 semesters

Course only offered every other school year; next offering: 2017-2018 school year.

The AP Chemistry course is designed to be the equivalent of the General Chemistry Lecture and Laboratory sequence that would be taken during the first year of college chemistry study.

As AP Chemistry is the equivalent of a full year sequence of college chemistry lecture and laboratory, students in the course will attain a depth of understanding of fundamentals and a strong competence with chemical problems. The course will contribute to the development of students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. The college course differs qualitatively from the usual first secondary school course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, the level of critical thinking, and by the kind of laboratory work done by students. Quantitative differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory.

Students who take an AP Chemistry course, designed with this curriculum framework as its foundation, will also develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses — a goal of every AP course.

The course addresses the six “Big Ideas” associated with AP Chemistry according to the College Board. Topics include atomic theory and development, atoms as the building blocks of matter, chemical bonding, VSEPR theory, intermolecular forces, phase changes, the mole concept/stoichiometry, chemical reactions (including redox, acid/base, and precipitation reactions as well as nuclear reactions, etc.) chemical kinetics with mechanisms, thermodynamics and the energy changes associated with reactions and phase changes, and various applications of equilibrium (including solution equilibrium and acid/base equilibrium). Both conceptual and mathematical reasoning are required in AP Chemistry. Students will also be expected to apply laboratory based knowledge in a variety of applications. Understanding scientific processes, carrying out laboratory work, and writing laboratory reports are also necessary and critical for completion of AP Chemistry.

Students are expected to display a strong work ethic throughout this course. The College Board recommends at least five hours per week of outside studying for success in AP Chemistry. Additionally, students will also need to set aside time for required laboratory report writing. The AP examination is taken in May and is required. After the exam, time is devoted to in class projects.

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AP Physics 1

Credit: 1

Grades 11-12

Prerequisite: Physical Science, Biology, and Chemistry

Recommended Prior Coursework: Honors Chemistry, IAG3/HIAG3

Math Requirement: IATG2 or HIATG2

The AP Physics 1 (has replaced Honors Physics) course is an algebra-based and applied trigonometry physics class. The course covers Newtonian mechanics (including rotational dynamics and angular momentum), conservation principles relating to work-energy and linear momentum in one and two dimensions, power, mechanical waves, oscillations, sound, and an introduction to electrostatics and electric circuits. The course will focus on the foundational big ideas in physics. Each student will develop and use their physics knowledge by applying it to the practice of scientific inquiry, reasoning and problem-solving. The course will follow the new learning objectives as outlined by the College Board for AP Physics 1. This course is suitable for students with a strong interest in science. There is an increasing hands-on lab component to the course which includes a few short term class projects. AP courses offer an adjusted GPA scale for students who complete the AP curriculum work with at a C+ or higher and complete the AP exam.

AP Physics 2

Credit: 1

Grades -12

Prerequisites: Physical Science, Biology, Chemistry, Physics or AP Physics 1

Math Requirement: IATG3 or HIATG3

Typically offered Spring Semester only

The Honors/AP Physics 2 course is an algebra-based and applied trigonometry physics class. The course covers fluid mechanics (with a review of Newtonian mechanics), heat and thermodynamic systems, geometrical and physical optics, electricity and magnetism, and atomic and nuclear physics. The course will focus on the foundational big ideas in physics. Each student will develop and use their physics knowledge by applying it to the practice of scientific inquiry, reasoning and problem-solving. The course will follow the new learning objectives as outlined by the College Board for AP Physics 2. The AP exam will be optional at the end of the year. This course is suitable for students with a strong interest in science. There is an increasing hands-on lab component to the course which includes short projects after the AP Exam.

AP Physics C: Mechanics

Credit: 1

Grade 12

Prerequisites: Physical Science, Biology, Chemistry, Physics or AP Physics 1

Math Requirement: Pre Calculus/Honors Pre-Calculus concurrently or AP Calculus

Typically offered Spring Semester only

The AP Physics C course follows the content, learning objectives, and necessary lab investigations as outlined by the College Board. This course is suitable for students considering a college major in the sciences and engineering. The student shall have a high aptitude to handle a more rigorous analytical course. The expectations for the course are comparable to an entry level course in college engineering. The advanced study of Newtonian mechanics includes: kinematics and dynamics, rotational dynamics, conservation principles of work-energy and linear momentum in one and two dimensions, oscillations of varied systems, gravitation (including satellite motion, and Kepler's Laws). Written laboratory reports based upon investigations by inquiry are required in the class. The Advanced Placement exam is required.

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AP Physics C: Electricity & Magnetism

Credit: 1 Grade 12

Prerequisite: Physical Science, Biology, Chemistry and Physics or AP Physics 1

Math Requirement: AP Calculus BC

Physics C: Electricity and Magnetism should provide instruction in each of the following five content areas: electrostatics; conductors, capacitors and dielectrics; electric circuits; magnetic fields; and electromagnetism.

This course is intended for those students who have a strong desire to pursue college level engineering or a technology field of study. The course is heavy in problem solving rigor and laboratory work complement the theoretical study of electricity, magnetism, and electromagnetism. A student is expected to spend a minimum of 5 hours per week outside of class in preparation and study. This class is **typically offered as an independent study**. The Advanced Placement exam is required.

SOCIAL STUDIES

World History (1450-Present)

Credit: 1 Grade 9

This course is the required social studies choice for the 9th grade. This course will focus on world history, 1450-present. The content of this course will focus on the Renaissance; the Enlightenment; industrialism; imperialism; nationalism; political and economic developments; social issues and reforms; science and technological advances; and the arts, literature, and philosophy of the time period. Academic skills taught and reinforced are: reading, vocabulary building, independent and group research and reporting, synthesis of information in the production of a project (often using various types of technology appropriate for the task) and critical thinking.

American History (1750-Present)

Credit: 1 Grade 10

This course is the required social studies choice for the 10th grade. This course will focus on American history 1750-Present. The content of this course will focus on revolutionary motives; Constitutional principles; industrialism; imperialism; nationalism; political and economic developments; social issues and reforms; science and technological advances; and the arts, literature, and the philosophy of the time. Academic skills taught and reinforced are: reading, vocabulary building, independent and group research and reporting, synthesis of information in the production of projects (often using various types of technology appropriate for the task) and critical thinking.

American Government

Credit: 1 Grade: 11

This course is the required social studies choice for the 11th grade. The course is designed to give students a basic understanding of American Government and its role in society. Content will focus on the foundations of government; historical context of American government; Constitution; legislative, executive, and judicial branches; and applied civil rights.

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Comparative Religious Study

Credit: ½ **Grade 12**

Length: 9 Week Block

This class offers a concise introduction to the historical and philosophical foundations of the major religions in our world focusing on the origins, sacred texts, and practices. Areas to be covered: the nature of religion, paganism, the eastern tradition (Hinduism, Buddhism, etc.) the western tradition (Judaism, Christianity, Islam), and the American religious experience.

Introduction to Psychology

Credit: ½ **Grade 12**

Length: 9 Week Block

This course offers a chance to investigate the broad areas of research about human behavior that will allow students to understand themselves and their world better. Sample topics include personality development, theories of learning, brain function and behavior, intellectual development, memory, evaluation and treatment of mental disorders.

Economics

Credit: ½ **Grade 12**

Length: 9 Week Block

This course offers an opportunity to study how people seek to satisfy their needs and wants by making choices. Because people work individually, as groups and through governments, students will study the role of each of these factors. Topics include supply and demand, business and labor, money, banking and finance, governments and economics policy and the global economy.

AP U.S. History

Credit: 1 **Grade 10**

Length: Full year [skinny]

This course follows the prescribed AP United States History curriculum. The goals of the AP United States History course are for students to gain knowledge of basic chronology and of major events and trends from approximately 1491 to the present and to develop an understanding of some of the principal themes in modern United States history, an ability to analyze historical evidence, and an ability to analyze and express historical understanding in writing. The focus of this class is to prepare students for the AP United States History exam given in May. The Advanced Placement exam is required. Past experience suggests the most successful students are those who bring a solid academic background and a highly motivated attitude to the class. Strong reading and writing skills are highly recommended. Students should be willing to become independent learners and to challenge themselves within a stimulating and competitive environment.

2017-2018 Course Selection Guide

Advanced Placement Government and Politics

Credit: 1 Grade 11

This course follows the prescribed AP Government and Politics curriculum. Students will receive a weighted grade as per Bay High grading regulations. Upon completion of the course, students will gain an analytical perspective of government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Topics that will be discussed: Constitutional underpinnings of the United States Government, political beliefs and behaviors, political parties and interest groups, mass media, institutions of the national government, public policy, and civil rights and civil liberties. The focus of this course will be to prepare students for the AP Government and Politics test in May. Past experience suggests the most successful students are those who bring a solid academic background and a highly motivated attitude to the class. Students should be willing to challenge themselves within a stimulating and competitive environment. This course can be substituted for American Government.

Advanced Placement European History

Credit: 1 Grade 12

This course follows the prescribed AP European History curriculum. The goals of the AP European History course are for students to gain knowledge of basic chronology and of major events and trends from approximately 1450 to the present and to develop an understanding of the principle themes in modern European history, an ability to analyze historical evidence, and an ability to analyze and express historical understanding in writing. These areas in which these goal are to be met include 1) Intellectual and Cultural History, 2) Political and Diplomatic History, and 3) Social and Economic History. The focus of this class is to prepare the student for the AP European test given in May. Past experience suggests the most successful students are those who bring a solid academic background and a highly motivated attitude to the class. Students should be willing to challenge themselves within a stimulating and competitive environment.

AP Psychology

Credit: 1 Grade: 12

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. More specifically, the course provides instruction in each of the following 14 content areas: History and Approaches, Research Methods, Biological Bases of Behavior, Sensation and Perception, States of Consciousness, Learning, Cognition, Motivation and Emotion, Developmental Psychology, Personality, Testing and Individual Differences, Abnormal Psychology, Treatment of Psychological Disorders, and Social Psychology. They also learn about the ethics and methods psychologists use in their science and practice. The focus of this course will be to prepare students for the AP exam in May. Students with a strong interest in the topics listed above, as well as a background in anatomy and statistics will be best suited for the course. Students should have a strong work ethic and desire to succeed in a rigorous academic environment.

2017-2018 Course Selection Guide

TECHNOLOGY EDUCATION

CAD 1: Engineering Drawing and Design

Credit: 1 Grade 9-12

Computer Aided Drafting and Design software (AutoCAD Release 2014) will be used to learn the fundamentals of engineering design and drawing. Conventional drafting techniques as well as computer-aided drawing techniques will be covered. Upon completion of this comprehensive AutoCAD fundamentals course, the student will be able to create basic 2D drawings using drawing and editing tools, visualize and draw multi-view drawings as well as isometric drawings. The last few weeks of the course will be used to introduce the Inventor 3D modeling software.

CAD 2: Drafting and Design

Credit: 1 Grade 9-12

Prerequisite: CAD 1: Engineering Drawing and Design

The course will begin with students using AutoCAD 2014 to enhance their existing command knowledge, create advanced drawings including, multi-view drawings and section drawings.

However, the majority of the course will be dedicated to exploring the Inventor 2014 3D solid modeling software. In Inventor students will create sketches, extrude and revolve models, and make working assemblies.

Students will also use the CNC Router to create prototypes of their own designs.

Architectural CAD

Credit: 1 Grade 9-12

This course will explore the design elements of residential architecture including interior design concepts, house foundations, roof types, floors, stairs, doors, windows and typical house styles. Students will design floor plans for individual rooms and whole house plans according to residential architecture design concepts. The Revit Architecture 2014 software will be used create floor plans, 3D house models, pictures and walk-throughs of student designed houses.

Pre-Engineering

Credit: 1 Grade 9-12

This course is extremely hands-on. It will cover design technology, technical writing, drawing, measurement, lab safety, basic woodworking, metalworking, manufacturing, CNC machining and engineering design. Students will complete several projects from wood, metal, and plastic. This course will also help students develop better problem-solving and engineering skills through many design scenarios. These will require students to create new product designs all the way from basic sketches, through constructing and testing working models.

2017-2018 Course Selection Guide

Introduction to Home Construction and Energy

Credit: 1 Grade 9-12

Students taking this class will constantly be moving – this is a very interactive course. The intent of this course is to make students handier around the home and teach the basics of construction and energy. Covered topics include: basic lab safety, wall framing, wiring/electricity, plumbing, drywall, insulation, automotive, energy sources, energy conservation, fluid power systems, and engines. Students will construct complete wall sections all the way from framing to drywall as well as several other projects. Students will also construct and complete projects utilizing alternative energies such as windmills, solar cells, hydraulics, pneumatics, and hydroelectric energy.

Video Production

Credit: 1 Grade 10-12

Prerequisite: Communications

This course is designed to introduce students to the concept of *media literacy* and to provide them with the opportunity to explore a wide range of audio and video production technologies and techniques. Students work individually as well as in small teams as they proceed through production exercises and projects. The equipment used will include digital video cameras, lights, microphones, computers, audio and video digitizers, and a variety of video production support equipment. Content covered in the course will introduce students to pre-production, shot composition, video editing, digital effects, image manipulation, and audio production. Students will also be responsible for creating a weekly broadcast that will be viewed by the school. Some involvement in after-school or evening video shoots will be required.

OTHER ELECTIVES

Elementary Aide

Credit: .50 Grade 12

Prerequisite: Eligibility will be based upon interest in education as a career and past disciplinary and academic record

This is a senior only class. There will be a limited number of students eligible for this course. An application must be filled out and returned to your guidance counselor. Not all applications will be accepted and placed.

This course is designed for the student who is interested in working with elementary school aged children. The student helps a teacher at any one of the Bay elementary schools. (Students who assist will have to provide their own transportation.) For further details about this course, speak with the Guidance Office. **There is a one semester limit; there are no exceptions.**

2017-2018 Course Selection Guide

College Credit Plus (CC+) Track Examples.

Cuyahoga Community College Associate of Science (STEM /Calculus) 15/30 Hour Blocks			
Course Number	Course Name	Semester Hours	TAG Course?
ENG 1010	College Composition I	3	Yes
MATH 1610	Calculus I	5	Yes
CHEM 1300	General Chemistry I	4	Yes
CHEM 130L	General Chemistry I Lab	1	Yes
Social Science *PSY 1010, SOC 1010 GEOG1010		3	Yes
	Total	16	
ENG 1020	College Composition II	3	Yes
MATH 1620	Calculus II		Yes
CHEM 1310	General Chemistry II	4	
CHEM 131L	General Chemistry II lab	1	Yes
Humanities* ART 1010, HIST 1010, PHIL 1010		3	Depends on course
	Total	16	

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Cuyahoga Community College Associate of Science, Non Calculus 15/30 Hour Blocks			
Course Number	Course Name	Semester Hours	TAG Course?
ENG 1010	College Composition I	3	Yes
MATH 1410	Elementary Probability and Statistics I	3	Yes
BIO 1500	Principles of Biology I	4	No
CHEM 1300	General Chemistry I	4	Yes
CHEM 1310	General Chemistry I lab	1	Yes
	Total	15	
ENG 1010	College Composition II	3	Yes
MATH 1420	Elementary Probability and Statistics II	3	Yes
BIO 1510	Principles of Biology II	4	No
CHEM 1310	General Chemistry II	4	Yes
CHEM 131L	General Chemistry II lab	1	Yes
	Total	15	

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Cuyahoga Community College Associate of Science, Engineering 15/30 Hour Blocks			
Course Number	Course Name	Semester Hours	TAG Course?
ENG 1010	College Composition I	3	Yes
MATH 1410	Elementary Probability and Statistics I	3	Yes
BIO 1500	Principles of Biology I	4	No
CHEM 1300	General Chemistry I	4	Yes
CHEM 1310	General Chemistry I lab	1	Yes
	Total	15	
ENG 1010	College Composition II	3	Yes
MATH 1420	Elementary Probability and Statistics II	3	Yes
BIO 1510	Principles of Biology II	4	No
CHEM 1310	General Chemistry II	4	Yes
CHEM 131L	General Chemistry II lab	1	Yes
	Total	15	

Other college credit plus Science options can be found through Lake Erie Nature and Science Center and Tri-C. "Ecology and Astronomy"